# Xia Zhang

List of Publications by Year
in descending order

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|---|---|---|---|
| 32 papers | 1,286 citations | 430874 18 h-index | 414414 32 g-index |
| 32 all docs | 32 docs citations | 32 times ranked | 676 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Fabrication of BiOIO3 with induced oxygen vacancies for efficient separation of the electron-hole pairs. Applied Catalysis B: Environmental, 2017, 218, 80-90. | 20.2 | 150 |
| 2 | Self-grown oxygen vacancies-rich CeO2/BiOBr Z-scheme heterojunction decorated with rGO as charge transfer channel for enhanced photocatalytic oxidation of elemental mercury. Journal of Colloid and Interface Science, 2021, 587, 402-416. | 9.4 | 120 |
| 3 | Surface defect engineering of Fe-doped Bi7O9I3 microflowers for ameliorating charge-carrier separation and molecular oxygen activation. Applied Catalysis B: Environmental, 2021, 284, 119727. | 20.2 | 104 |
| 4 | Hydrothermal synthesis of carbon spheres â€“ BiOI/BiOIO3 heterojunctions for photocatalytic removal of gaseous Hg0 under visible light. Chemical Engineering Journal, 2016, 304, 533-543. | 12.7 | 95 |
| 5 | Controlling dominantly reactive (010) facets and impurity level by in-situ reduction of BiOIO3 for enhancing photocatalytic activity. Applied Catalysis B: Environmental, 2018, 232, 135-145. | 20.2 | 95 |
| 6 | Constructing 3D Bi/Bi4O5I2 microspheres with rich oxygen vacancies by one-pot solvothermal method for enhancing photocatalytic activity on mercury removal. Chemical Engineering Journal, 2021, 425, 131599. | 12.7 | 93 |
| 7 | Fabrication of BiOIO 3 nanosheets with remarkable photocatalytic oxidation removal for gaseous elemental mercury. Chemical Engineering Journal, 2016, 285, 11-19. | 12.7 | 91 |
| 8 | Influence of BiOIO3 morphology on the photocatalytic efficiency of Z-scheme BiOIO3/g-C3N4 heterojunctioned composite for Hg0 removal. Journal of Colloid and Interface Science, 2020, 558, 123-136. | 9.4 | 89 |
| 9 | Constructing 2D BiOIO3/MoS2 Z-scheme heterojunction wrapped by C500 as charge carriers transfer channel: Enhanced photocatalytic activity on gas-phase heavy metal oxidation. Journal of Colloid and Interface Science, 2020, 562, 429-443. | 9.4 | 62 |
| 10 | Solvent-exfoliation of transition-metal dichalcogenide MoS2 to provide more active sites for enhancing photocatalytic performance of BiOIO3/g-C3N4 photocatalyst. Applied Surface Science, 2019, 481, 838-851. | 6.1 | 55 |
| 11 | Synergistic effect of surface defect and interface heterostructure on TiO2/BiOIO3 photocatalytic oxide gas-phase mercury. Materials Research Bulletin, 2018, 103, 247-258. | 5.2 | 41 |
| 12 | Photocatalytic oxidation removal of elemental mercury from flue gas.ÂA review. Environmental Chemistry Letters, 2020, 18, 417-431. | 16.2 | 40 |
| 13 | Conversion of 2H MoS2 to 1ÂT MoS2 via lithium ion doping: Effective removal of elemental mercury. Chemical Engineering Journal, 2022, 428, 131014. | 12.7 | 29 |
| 14 | Constructing interfacial contact for enhanced photocatalytic activity through BiOIO3/g-C3N4 nanoflake heterostructure. Catalysis Communications, 2018, 109, 55-59. | 3.3 | 23 |
| 15 | Fabrication of BiOI nanosheets with exposed (001) and (110) facets with different methods for photocatalytic oxidation elemental mercury. Colloids and Interface Science Communications, 2021, 40, 100357. | 4.1 | 22 |
| 16 | Fabrication of Carbon-Modified BiOI/BiOIO3 Heterostructures With Oxygen Vacancies for Enhancing Photocatalytic Activity. Catalysis Letters, 2018, 148, 3349-3362. | 2.6 | 21 |
| 17 | Insights into the Mechanism of Elemental Mercury Adsorption on Graphitic Carbon Nitride: A Density Functional Theory Study. Energy & Fuels, 2021, 35, 9322-9331. | 5.1 | 21 |
| 18 | Fabrication of BiVO4/BiOIO3 Heterojunctions via Hydrothermal Method for Photocatalytic Activity Under Visible Light. Catalysis Letters, 2018, 148, 3193-3204. | 2.6 | 18 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Facet-dependent flower-like BiOBr with exposed the (0 0 1) and (0 1 0) facets for enhanced charge carrier transfer and photocatalytic oxidation activity. Chemical Physics Letters, 2020, 760, 138010. | 2.6 | 18 |
| 20 | Rational design bionic flower-like BiOBr0.5I0.5/WS2 Z-scheme heterojunction for efficient oxidation of Hg0: Synergistic effect of facets exposed and intrinsic defects. Chemical Engineering Journal, 2021, 416, 129537. | 12.7 | 18 |
| 21 | Ei¬€ect of (La, Ce, Eu) doping on structural, and optical properties of BiOI nanosheets: As a model of photocatalytic activity in heavy metal removal under visible light. Materials Chemistry and Physics, 2021, 267, 124691. | 4.0 | 16 |
| 22 | Graphitic Carbon Nitride for Gaseous Mercury Emission Control: A Review. Energy & Fuels, 2022, 36, 4297-4313. | 5.1 | 15 |
| 23 | The effect of different morphology of fluoride-mediated TiO2 based on Ostwald ripening on photocatalytic activity. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 610, 125702. | 4.7 | 13 |
| 24 | ZnS-modified carbon nitride nanosheet with enhanced performance of elemental Hg removal: An experimental and density functional theory study. Korean Journal of Chemical Engineering, 2022, 39, 1641-1650. | 2.7 | 8 |
| 25 | Fabrication of bionic flower-like g-C3N4/Bi4O5I2 photocatalyst with enhanced photocatalytic performance. Chemical Physics Letters, 2020, 751, 137533. | 2.6 | 7 |
| 26 | 3D/0D Cu<sub>3</sub>SnS<sub>4</sub>/CeO<sub>2</sub> Heterojunction Photocatalyst with Dual Redox Pairs Synergistically Promotes the Photocatalytic Reduction of CO<sub>2</sub>. Energy & Fuels, 2022, 36, 7763-7774. | 5.1 | 7 |
| 27 | Enhanced photocatalytic activity on elemental mercury over pink BiOIO3 nanosheets with abundant oxygen vacancies. Korean Journal of Chemical Engineering, 2022, 39, 343-352. | 2.7 | 5 |
| 28 | Dual modification of BiOIO3 via doping iodine and fabricating heterojunction with basic bismuth salt: Facile synthesis, superior performance for degradation of multiple refractory organics. Journal of Environmental Chemical Engineering, 2022, 10, 107068. | 6.7 | 4 |
| 29 | Hierarchical porous g-C<sub>3</sub>N<sub>4</sub>/Bi<sub>5</sub>O<sub>7</sub>I photocatalyst for high gaseous mercury removal. IOP Conference Series: Earth and Environmental Science, 2020, 512, 012045. | 0.3 | 2 |
| 30 | In-Situ Hydrothermal Synthesis of SnS2/SnO2/rGO Nanocomposites with Enhanced Photogenerated Electron Transfer for Photoreduction of CO2 to CH4. Catalysis Letters, 2023, 153, 1284-1293. | 2.6 | 2 |
| 31 | Experimental Study on the Photocatalytic Reduction of CO<sub>2</sub> by Fe<sub>2</sub>O<sub>3</sub>/BiOIO<sub>3</sub> Composite Photocatalyst. IOP Conference Series: Earth and Environmental Science, 2021, 770, 012033. | 0.3 | 1 |
| 32 | Influence of different solvents on the performance of bismuth-based photocatalyst for mercury removal. Chemical Physics Letters, 2021, 773, 138598. | 2.6 | 1 |